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Application Serial No. 10/564,938
Amendment

PATENT
Docket: CU-4652

Amendments to the Claims

The Listing of Claims presented below replaces all prior versions, and listings, of claims in the Application.

The Applicant wishes to make the following amendments to the claims of the above patent Application:

Listing of claims:

1.-70. (cancelled)

71. (new) A method for affinity capturing and concentration of biomolecules, comprising the steps of:

a) providing a plate that fits into Mass Spectrometry instruments, the plate comprises an array of units, each unit comprises an inlet at one side connected to a compartment with an outlet at opposite side of the inlet, said outlet having an analysis zone, said unit enabling fluid flow through from the inlet to the outlet by the use of pressure and allowing biomolecules to be concentrated in said analysis zone present in the area of said outlet;

b) adding a capturing medium having affinity to one type of biomolecules, to one inlet of a unit and allowing said capturing medium to enter said compartment and loading a sample comprising biomolecules to the same unit as said capturing medium and allowing said sample to enter said compartment and allowing said capturing medium to bind to said biomolecules in said sample or mixing said capturing medium having affinity to one type of biomolecules with said sample comprising said biomolecules and then adding the mixture to one inlet of a unit;

c) allowing said sample to pass through said compartment and out from said outlet;

d) applying a washing step to said unit;

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e) eluting said biomolecules from said capturing medium to said analysis zone;
and
f) allowing said biomolecules in said analysis zone to dry.

72. (new) The method according to claim 71, wherein all units in the plate are exposed to step b) to step f) simultaneously allowing to load all the units with biomolecules to be analysed by Mass Spectrometry.

73. (new) The method according to claim 71, wherein the area of the inlet is larger compared to area of said outlet

73. (new) The method according to claim 71, wherein said biomolecules are subjected to crystallisation after step f).

74. (new) The method according to claim 71, wherein said units of said plate are exposed to one or more additional step of enzymatic treatments or chemical treatments.

75. (new) The method according to claim 71, wherein said plate contains 96 units in the array.

76. (new) The method according to claim 71, wherein said pressure is vacuum.

77. (new) The method according to claim 71, wherein said biomolecules are antibodies, peptides, DNA, proteins and carbohydrates.